St Louis Jan 10th 1875

Here, my dear Dr, comes a new instalment — (two new species!) but I am afraid post festum — too tard — as they said to Louis Philippe, in the Tuilleries, Febr 1848 — Nevertheless, I have done my duty to those two plants.

The other day I sent to Gray the diagnoses of two new Oregon Gentians, a third proved no Gentian at all, but a Chilian Gentianaceous plant: Cicendia quadrangularis.

Is it cold! — 18° was the lowest, I had yesterday morning.

Siler and Johnson write lovely letters, upon my grumbling — Good souls!

Siler says he will send his plants to you, where I may get what I want. He had offered them for 7½

Jan 10 '75

cents — I had offered 10 cents for each sp. if I could pick them. So you will have the disposal

When do you come? — But I am patient, as you say!

Got a box of Cacti from some one at San Diego — a day or two ago — have not opened yet, for fear of finding every thing destroyed by post — coming over the plains. Will do so, as soon as I have screwed up courage — That Johnson box has scared me!

No fruit on that new Cercuta shall I say "more suo"? so I can not say to what section of C. it belongs! But I won't grumble; it is too bad a habit!

Any thing from Duncan? I have not heard from him since that single letter

Yours truly

G. Engelmann

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

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St Louis Jan 26 1875

Dear Parry

you are surprised at my spasmodic activity! Have got two letters from me with 4 new plants! and Gray is doing so much better. Can not say that I am satisfied with his thistles — but Cuion Parry is good. Have not touched Portulacaceae yet.

Got a lot of Cacti from a friend who passed through San Diego; Op. prolif. Ech. vir. Cer Emor etc all very nice, but forgot to draft! cost me $15!! There is one good thing though, that pleases me mightily — Op. Rafinesq, your first Cactus, I believe, in ripe fruit — seeds good and very characteristic and "instructive" The species is a very good one — pity, the other San Diego Op. serpentina is not also among them.

Your Utah plan may be good but do not count me in! when I want to escape summer heat in Illinois I shall surely not fly to Johnsonii! — Brandegee writes that they had −12°, good

Jan. 26 '75

for Cinnon !! Queen Emma yet green, can stand all that — others backs have lost their leaves or they are brown — no character in that !! "Mr Putnam is well" walked with me to Springs [½ mile] had to sit down several times — (therefore weaker than when he came ?)

Write more about him; has he got a Pony? as I advised him. He has written to me only once. My wife got a letter from Mrs Putnam some nights ago, but as she is not [illegible]

Of course I do not want more common things from you, but all the good ones.

Yes, send Abies grandis from Yellowstone. I have the true plant from Montana.

+ expert English writer dont feel like answering it, but mention her to Mrs P. with sentiments of ... etc.

I send you a fruit of Op polifer. greenish yellow!

Yours truly

G Engelmann

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Things that I had sent to Germany from Europe have not arrived — I only now learn that only packages of 8 ounces or under go through — how stupid! All those nice things were thrown out in New York !!

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St Louis 19 Febr 1875

Dear Parry

two letters unanswered — so you see I am on another track. Dont work at your things at all! Erratic! I have got Rottrocks things — nice — some Pines and Oaks or rather 2 pines and 1 oak that none of you ever got in Arizona! And settling some Agaves — Parryi in bloom and fruit, and leaf!! Also gentiana Wislizeni, a Pinus Chihuahuana, but that has already been found by Wright in Arizona.

But more than that, an ungrounded promise I made (to deliver a lecture in a public course) keeps me from doing any thing else — and the daily routine of patients.

You will have to wait a little — but Olaytonia I never looked at nor have I good material — can not do good service in that genus. But Dont despair!

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Hayden's Colorado Report of 1873 just out, contains a heap of interesting matter —

I hear nothing whatever from Grey

When Rozyl was here 2 years ago I showed him sp. of Pendlers of Mex. Consolor and he thought he would look it up going West and S. West. — May be he has, or has sent something else by that name, he is very unscrupulous. A. con is not rare — Brandegee sees plenty of it — Rothrock got a fine specimen in his coll. — And it is not improbable that the California "grandis" known under divers names and extensively cultivated, may be the same thing. —

Sad about the Death of little Berthoud give our regards and regrets to Mrs B.

Had a letter from Dawson, but probably not so late as your information

More when I have more to say.

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19 Feb 75

In your letter of 3 weeks ago you ask about Cer Emoryi — pity the plants are dead — frost killed! no seed on them. — The flower I had seen from other Collectors, it is yellow which is rather rare among Cereei.

Got today a large box from Brandegee Cactii, etc etc for the latter are also killed! The third Cactus box in the dead of winter!!! and fearfully dear: freight 13.50.

Mrs Schulenburg was doing very well till New Year — Cold weather and pleasure seeking have brought her to the brink of the grave; has not been out of bed since. May be able though to go to Colorado again.

Thanks for the plants — what is "the damage"?

Yours truly

G Engelmann

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St Louis 27 Feb 1875

Dear Parry:

Enclosed please find "the truth about Colorado" to the hands of our friend Bellard I had been quite amused — but it cured me of the inclination to send those $20.000 more or less to our friend Peck!

The man might have added: "we never have any colds here" vide a certain Dr coughing, and Mrs Parry and Mrs Peck trying to dose him with tar, molasses, butter and I do not know what

well you have to thank the inability to do for the receipt of these talk

But I will attend to that Asiep. as soon as I am able — soon — in a week —

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I had laid aside for you flowers of both Agaves — from Rothrock which I enclose here — see the difference of tube and lobes in both & insertion of ~~anther~~ stamens. The fruit and seeds are from Palmer and have probably passed through your hands — in those piping times of peace — peace with the powers that be —

By the way is Gray still such a savage Republican, a little worse than Morton if possible — I have sometimes a mind to taunt him with his pet, U.S.G. but then, he might not write me another letter — he has not answered a thistle letter of a month ago. You say he is poorly — how?

Aha! Rothrock stumps you, with "nice things" you are getting jealous!

What you say about

27 Feb '75

Duncan is changing — he seems to have stood — 14 well enough; but now comes the changes of March —

I like your plan — but not too early, you know the climate of Davenport better than I do; he must not come too early.

Box from Bradegee.

That Juniper could really have no red wood at all and splits poorly — I must get my friend the Captain, who is in Camp Harney, South eastern Oregon and has sent Juniper ~~and~~ and Pinus ponderosa to look after the wood there. — Getting information under difficulties!

Truly yours

over

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I had both flowers of Agave before but did not know Thurber's which Schott had collected & Palmer 20 years ago — Your San Felipe flower is probably = Parryi — but that San Diego thing described by you, to be called Agave

everyphylla must be a peculiar thing.

By the way Silas's fresh & mature berries of Dun. & Col. on ut show that really there are none of the tuberiferous vesicles, and the berry is edible (though not exactly pleasant)

How will these plants fare with a good 20 stamp outlay?

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Please send me a set of those marked cones of Contorta — I intend to plant them partly entire, and partly the contained seeds for an experiment. mark the age carefully and conscientiously!

I wrote on the envelope of my letter of the 27th that Ulis Arizonica is only named, just as V. Caudicans was which Buckley stole and converted into V. Mustangensis. But this reminds me that I have many like sins on my conscience — which, before I die, ought to be taken off or shaken off — for it seems that it takes a good shaking to overcome — what? The two Agaves belong to the same class of sins of omission

March 17 1875

Dear Parry,

The above was written some time ago, evidently intended for you

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I do not know, whether I have not written the same since — but no matter you may read it again, no harm.

I am working up V. arizonica and and you miss very soon.

Astragalus ~~ensiformis~~ ensiformis? I do not know what to do with, as I can not compare the real thing; have written to Gray for a flower of it — and there is another woolly Astrag. in California A. vestitus, which I know nothing about. The leaves of your plant do not agree with the description of ensiformis.

Gray has sent several letters, is sick again from new cold (cutting hair & beard) will go south with wife — perhaps come here on returning —

I have a promising letter from G. N. Hitchcock from San Diego offering to collect and send Calif. etc. — Now as we have a resident there who proposes to do things we must pump him. I have mislaid a Mem. of the exact locality of P. Torreyana & P. Parryana — especially the latter is important; and our friend Hitchcock must be set after them. Also after your broadleaved Agave, A. eurycphylla n. sp. Give me exactest localities of both so that they can be found. — I believe I spoke of that Agave in my last letter — you know what I mean

Mar 17, '75

I send you a copy of the St Louis Democrat with my lecture — you will be pleased with some recollections in it; in other things you may find it poor: — first attempt of the promising young man!

Did neglect to send money here it is — hope it will not slip out of the envelope!!

$15.00 you say.

You say location of Ariocarpus is quite peculiar — but do not say what the location is!! What?? Do you know or possess Ariocarpus! if so send a flower.

But now enough

Send any thing you think proper of Sisters and say what to pay so as to help and encourage him.

Watson writes rather positively that I made a new sp of your Euphorbia which he took for novelty, is going to send me more doubtful Euphorbs to make new sp off!

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Did I write about Rothrock's data?
I am now inclined to think that
Torrey's original Emoryi is different from
what we have lately taken for it. – Wright.
sent it and now Rothrock and it agrees exactly
with fig in Emory Report. – Our Emoryi
is the extreme form of undulata.

Yours ever
J Engelmann

My wife wrote to Mrs Putnam
on the death of the Berkhard babe
kind regards to Mrs P

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St Louis March 23 1875

Dear Parry

here is all I can do for you today — will send Asclep. as soon as I receive the material from Gray, to compare.

I sent you $15 the other day. Still I expect is all safe.

Silver as you say out hay day. Hayden! No more of him for me.

I had a letter from him today in which he offers many pounds of Yucca baccata seed for which Meehan finds no sale in Philadelphia, he referring to you (which Johnson also did some time ago in the same strain) "Dr P. urged me to collect them saying that there was such a panic in Germany for Yuccas"

In "Panics" we are apt to run away, which I will have to do from Yuccas if they continue to disturb me thus! I fear I shall dream of them: just think of their bayonets attacking me from every side, and their big pulpy fruits choking me! Ugh!

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Mar 27 '75

I shall send silver two dollars as you suggest.

You see that I have made quite a long (and valuable and interesting!!) article of U. Arizonica — of such!!) I want a dozen or 20 copies.

You may read it over and improve its English if not its Botany. —

They are overdoing the business and nobody will want them they after this; especially as they peddle them round — the proper way is to send to one man to retail spread and publish them. —

So you adopt Gray's unrolled for mark ° for feet, which every body else reads for degree: i.e. now 2° — Empire, I suppose is 8500°

It is a Yankee sign (paper money) which has no currency elsewhere I believe. —

Acknowledge receipt!

Yours truly

G. Engelmann

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St Louis March 29 1878

Here, my dear Perry, is the last instalment. When you see the trouble I had to get that poor Asel. fixed, how I had to hunt up material to compare, and to analyze the scant fragments obtained (through Tuckson) you will appreciate the work, and not scold for not having done Claytonia, which I would have to study all over with all relatives, etc etc. Lewisia I have entirely forgotten, mislaid notes, could not find but to begin anew — no time nor inclination now!

What I said about "more suo" in the MSS is for your private benefit and you may add, correct, scratch just as you please!

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your letter came Saturday and today a summons to the Post office — There I found your contents in a twisted condition. They had found out your labels and they made me pay letter postage! I would not have thought that an old stager, like you, would be caught so green!

Well, they will be attended to. —

I learn that written numbers are allowed but no other writing. A schoolmaster (?) in the Indian territory caught me in the same way a few months ago.

Today a letter from Broadegge "Alois Mayiesa" commonly in the high Sierra de Chuito Mtns — Is it not Eaglesa?

Your notes will be forwarded at once to San Diego.

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Mar 29 '75

A Colonial news or curiosum!

A professor at the Forestry College in Austria has requested per leaves of all our Pines. His microscopical analysis would enable him to distinguish all species, varieties, allowances, by a leaf alone. I will send all as soon as I can find time; but first P. flexilis x albicaulis, P. contorta x Balfouriana, and the 4 real pines — to test them and test him! — The ~~proofs~~ results he has already given me agree with my views and let me hope, that there is something in it

You have got Arizona by this time and also my little addition.

No 2 has not yet come.

I would like you to criticise my "Forests" — Mr Parry was no doubt tickled with the main idea of the tourists. Several persons have written for copies.

Yours ever
G. Engelmann

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I wrote to Newberry for notes about his Agave — Lobs Report — a very peculiar species — No answers If you go to N.Y. you could drop and hunt up what can be got. I have seen Sp. in the Army. an odd thing —

My wife had a bad fall nearly 2 weeks ago, struck on head, bursting temporal artery, great effusion — immense swelling — no brain symptoms to keep in bed most of the time, tumor very slowly diminishing — bad luck !!

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Did I tell you, how it happened that my nice packages never reached Germany? I verithought 4 pounds were allowed, while it is only 3 ounces !! Neither P.M. Peck nor I found out in the big P.O. Book !

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St Louis May 28th 1875

My dear Parry

Your letter of May 13 ~~and~~ accompanying package came to hand a week ago together with another Pine package and letter from Dr Chapman which also treats of a non opening (contortous) new Florida Pine, about which Prof Gray can tell you more as he has <u>seen</u> (but <u>not</u> <u>collected</u>) it. It is not cousin or brother to P. inops (not glabra) but probably distinct — it would be odd if inops opening at maturity from New Jersey to S. Carolina should change there in Florida. Chapman calls it P. clausa. Poor thing — never (?) permitted to open and propagate?

Thus together with your P. rigida for which I am greatly obliged opens the question of closed cones again.

None of the Contorta seed are germinate yet — that isolated tree in Surprise may not have born perfect fruit.

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Two questions or more seem to obtrude themselves:

Do the seeds remain good for years in the closed cones?

Do these cones ever open afterwards? One should think that they falling to the ground rot and disengage seeds — but they do not fall!

Do not the cones, once past maturity, ever remain closed — having lost the integrity and elasticity of the tissues.

What keeps them closed? You know that I suggested the absence of good seed — but there is good seed, and on the other hand empty cones of P. sylvestris or pondersosa etc open very readily, never remain closed.

It was known to me that rosin remains closed sometimes and thus forms an easy bridge to P. serotina, which is with the new Chapmanian the only eastern closed one. Serotina is made by Gray a pondersosa rosin

May 23 '75

and probably justly so.

A letter from Brandegee speaking of Duncan says that he had left (much too soon for that late spring) and that he did not expect he would live long, is coolly added. May be so?

My wife is in good health though she bears the marks of that tremendous effusion yet. — Housecleaning trouble! — servant trouble! — I do not know whether she might not add Husband and son trouble! — What is life but trouble?

This sober reflection comes in properly because today is Sunday.

Somebody has handed to me a bundle of weeds from New Mexico, wants to know what this heath like shrub is and what it is good for — I do not know, hope you or the other wise men of Cambridge may be able to tell.

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I must go back to your questions of Pinus rigida. Male & fem. flowers are formed on the growth of same spring — males at the base, females more or less towards the top of branch. — Many Pines have adherent cones — rigida, pungens, inops — others resinosa, sylvestris etc are deciduous and ponderosa has constantly that persistent base, you know.

No I do not know Lemon, and one op. of his Abies. I expect it has nothing to do with Brantii.

I hope we will have soon your Utah paper, descr. of Plants — send me several copies to distribute.

Rothrock has gone to Los Angeles.

You speak of a new Yucca paper that you want — I have not published any thing for a year — what do you mean?

Let me hear from you again. How does Cambridge look, and

Asa Gray

Yours truly

G. Engelmann

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St Louis June 12th 1875

My dear Parry

I was glad to receive a sign of life from you — had almost given you up as lost among the Yankees. But your handwriting — I did not recognize it — so good — so civilized! Yankee influence? I actually could read it as if it was print!

Well, I can not make out anything of this Lemmon scale — such a young scale is not accountable — Good for Lemmon if he made so much — rather remarkable, as all sorts of Pine seeds are annually sent to England from the numerous Collectors in San Francisco.

If you had sent me a leaf or two I could have better identified the species, but from what you tell me about the name A. amabilis, I judge it is what the Californians persist in naming amabilis and which Murray has long since distinguished as A. magnifica — a tree well known to Bolander et — but they persist in calling it amabilis, while the other Californian they will call grandis.

I do not know yet whether or will leave for Oregon or not.

but this is not the Grandis from the Columbia River, of which Lyall and Lately Hall sent specimens. I am very sure that this is the same as our Clear Creek A. Grandis. But you have hit, I think, the true thing, in suggesting that the California "grandis" is nothing but A. concolor. I have thought so for some time, and so your suggestion confirms me — there are some points, though, not entirely settled yet — some (slight) points of difference do exist. —

This California grandis has received several names, but concolor — if concolor it is — is the oldest.

Rothrock, whose headquarters are at Los Angeles this season, must try to trace it concolor from the San Francisco mountains, where I know it to grow farther west — and Prof Dawson of Montreal will have to trace A. balsamea on the 49th lat westward to find how it becomes A. grandis — as well as Alba & Lasiocarpa. I have written to him about it.

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June 12 '75

Well, our friends in San Diego are full of zeal and appear efficient also, only a little too much so, threatening to send "one of the largest Agaves that grow at the Monument" to me by express!! I deprecate poste-haste the gentle gift — beg only for a few leaves, flowers, seed, and young shoots.

You see your old locality of 25 years ago has been found, and the plant on it — it may prove Parryi after all, But we will soon know.

If those eastern men only could be stirred up so effectively! I have not only specimens of wood of Juniper occidentalis from Carson from Texas, and expect it from the interior of Oregon — But to get A Fraseri seems impossible — Of A balsamea I have a tolerable good supply, which is very interesting as I can on it study the variations in an undoubted species — which has no allied ones (except that confounded mysterious Fraseri): near it. How we can distinguish

Mrs. Asa Gray

this from a heavier and more persistency wood. Mr. Wm. Gray

A. balsamea and grandis except by size, is a puzzle — but I think there must be other differences and good characters.

Bradegee is also out in the Mtns with Hayden's Party. He says Condolor has poor wood — sends it. but Bolander says that Menzies — Magnifica has excellent timber; and his grandis — condolor very poor.

Well I guess in a few years I will have gathered material enough to come to some conclusion!!

I find a Mem: Why is Parry's Yellow stem Botrychium simplex and not B. lunaria? I can not distinguish it from German Lunaria.

I am anxious to get a few copies of your pl. Utal. with the abortive unborn Mellichampia, the Lifé Asclepias etc etc — and other of Dr Engelmann's unborn botanical treasures not found in it. —

Write soon, tell me also about Drummond

Yours

G. Engelmann

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I have good specimens of Hall's Juniper from Bolander

Poor specimens

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St Louis 17 Jan 1851

Dear Jerry

Your of 15th rec'd yesterday

Parcel to day.

You know the proverb, what we wish for in youth, we get in old age, and others of similar import.

I got from San Diego yesterday living joints & fl. of Op. Serpentina, and "last of all" Election of Hon Wm Lyon "with the intimation that several members of their society be elected to our Ac. Good! the "quid pro quo" Oh what does a man not submit to for Cuti cand Agaves, Not to speak of Vines!

This morning the parcel came; yes send a dollars worth of Stapelia though I have scarcely any exchanges. I include the fl. which you can remit in person! with my compliments

And now I get a parcel of fresh plants 30 miles west of this — nice things — Dodecatheon esculentum, Azalea Lyrata, Gonolobus obliquus, Galium virgatum but above all the unexpected Saxifraga Pennsylv.

I examine & distribute now (caught to have done it long ago) my Colorado plants — find Osmorhiza nuda (which I believe you did not get) a good sp. not "too near brevistylis"

I have nothing against your orthography, topography or typography but a good deal against your calligraphy — and yours I suppose against mine — so that will balance each other.

I also got a copy of Jones Report

Yes the Lemon Bois is A. Magnifica — with those short square leaves (like A. nobilis those that described as Mabilis

17 June '75

first could not but have noticed these spruce-like leaves, but did not, nor does any of the trees raised from Douglas seed show any thing like it. A few months ago I had a query in Gard. Chronicle (through Hooker) whether wood of Arbutus or grandis either now 45 or 48 years old in England had ever fruited. Have not had any answer.

I know Arbutus well at least Ottawa I do — and Madeira is right — it is a form of Grandis.

Red and "applegreen" cones are good, but not sufficient. I have seen A pectinata in Germany on the same mountain with red and pale green cones — this same diff. in Colorado distinguishes also as far as it goes Pinus flexilis & albicaulis

(green) (red)

I have not got your Utah plants yet — and of the former number of sum 1 of other, 2 copies; can not now lay my hands on, to tell what I have.

Glad they have both specimens in Cambridge — but only one A. E.!

Letter Jones Report to the Botanists from C. C. Singleton are mentioned — What you send me with the Mosses of 1873 Utah, to the B. Lunaria

Yours truly

Geo. Engelmann

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Athens July 8 1875

My dear Parry

not a line from you from Davenport! in answer to my anxious solicitations. But to-day come the missing numbers of "Illust plat" except No 5 and last, with Arctic etc which I suppose is not out yet.

Thanks to you.

I am sorry I did not neglect and procrastinate a good many things — among others the study of my Colorado plants. There is a new Mentzelia (M chrysantha n. sp) among them, and in good fruit from Canon, which I think is the same as your doubtful No. 78. Do you recollect the ~~number~~ colour of flowers and time of flowering, mine is golden yellow, and open in day, at least in afternoon. —

I have some specimens of Opuntia Serpentina and phaeacantha — the fruit and seed is very distinct from prolifera. I hope to raise it.

Better than that, the good people of San Diego sent me an edgeweed from the "California desert" which

you must have seen too; probably from the arid valley S.E. of San Felipe where Emory in Nov 1846 complained so much of it

It is a very distinct thing — with slender (comprimed) terminal spur 1/2 inch long with a narrow groove

I have a good distinct gray plant, but no more yet — have written for more from Leaf — Flamet. The good folks there have put their foot in and will I hope, permit me to extract as much as possible from them.

The "Monument Agave", as it is now called by tacit consent has not turned up yet but is promised.

Uvedy sends some strijnos Euphorb a Cact coll by a Dr Smart in 1867 Never heard of him —

You seem I am busy —

July 8, '75

my own way but unproductive unless some one is poking at me as Dr Parry did about Asclep. etc.

There is a very jealous fellow 30 m from here in this county, who keeps sending me fresh plants — some of them good — the other day Vasey's new Saxifraga Forbesii (mounts Cik. Pennsylvania)

And now good bye; write soon

No prospect of going off to the shades of Bellsamer but a long letter of ?? to Lennox !!

Yours

S Sargent

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St Louis July 7th 75

Dear Parry

Yours of July 8th came this morning, and though I had written a week ago, one word in it fired the latent heart & I must write again.

You have found Erythræa and don't send it! Don't you know that I am deep in Erythræa?

My brother, with Simpson's Exp., had collected in western Utah (or Nevada?) a little species which Watson takes for his Mutellii; but which I suppose is a distinct species. — Yours may be the same; send it at once, and with good seed for Erythræa without seed is only half the thing. Get enough of it.

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more — med (non sno)

Thanks for the seedling pins; and get them in a month or two, with second leaves. — Their cotyledons (7–8) corresp. with those I found in the seeds. —

Has Grandis there also 4 cotyl?

Do you find the leaves of Grandis (—a, on Clear Crak) emarginate, obtuse and pointed on same tree?

Your specimens & β C were received 2 days ago. Thanks.

That Los Angeles seed-road appendage is a good idea. Of course you will look out for all nice things. Let me hear from you often.

Some one, who pesters me with scraps of plants from the Indian Territory, to name, has sent a few good things lately and also among them a new Isoetes, quite

July 1 '25

terrestrial, on arid ground.

No Boechera in your lake?

So Greene is or was again in Colorado — I did not know; have not heard from him for a long time

Why "Black Balsam"? What is black? Bark?

Watch Jones and word! I suspect some California will prove forms of undulata. In Canon there are 3 or 4 forms, evidently according to locality; fertile soil is var gambelii, rocky soil true undulata and edge of precipices, most arid, the small & spiny leaved var which we used to take for Emoryi.

Note also the size of the trees — though in Colorado always a bush, it may grow up to a respectable sized tree I guess.

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I do not understand whether Mrs Pais will join you? or will join you.

My best wishes for Duran

Write often, if you are not too tired.

It is cool & wet and we will probably stay here.

Yours truly

G. Engelmann

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St Louis Oct 11th 1875

My dear Parry

I avail myself of the first permission allowed me to write to you!

Had not heard from you so long; and did not know where to address. Post Cards must be scarce at Spring Lake. Had I thought if it I would have sent you a lot, blank — or perhaps better with my name written on one page "only".

Your Arcuatta package came safe to hand and several days ago the seeds, both of which I recognized. Thanks.

No seeds of Yucca brevifolia obtainable? The wet season has killed all my specimens!!

I am corresponding with Lemmon, from whom I hope much about the Alaska question. Will you see him?

Gentlemen — your Cactus is much pleased with Mr. Douglas' (not Matthews)

Gentlemen — your Cactus is much pleased with Mr. Douglas' (not Matthews)

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But I expect more from you!

I have been working hard in Abies lately and several new lights are dawning! But I won't bother you with what may or may not be true. There is not the least doubt about the difference of the two Colorado trees, but I fear the Clear Creek grandis is not grandis. But I pass these questions to say that

1, sterile lower horizontal branches
2. branchlets which bear male flowers (or their vestiges)
3. branchlets which bear female flowers or cones are necessary to make out the character.

These 3 ought always to be collected, even at a season when cones or flowers can not be got they can always be found; and seeding plants, if possible!

The California Abies bother me yet and with Bolander and in the seed stores you ought to be able to do a good deal, to help me along.

There are two extreme forms: the
1, the Oregon – Vancouver – Mendocino

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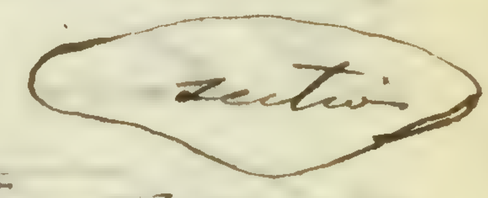
Oct 11 '75

true A grandis with short dark green leaves
2 white bands on the under side, section of leaf

2, the Colorado - Arizona & Utah A concolor, pale green, longer leaves, both sides covered with stomata & therefore glaucous  section

The form of the Calif. Mountains seems intermediate and may unite both. and though Bolander and Brewer have collected many forms, they have not collected with a proper appreciation of the different kinds of foliage. I have written to Lemon ? ? ?

But I will tell you, when you see a cone, obtain one, or a few seeds and scales if one (as Bolander sent me several last year) try and get a leaf or a few attached to the base of the cone or the branchlet which bears it. (not loose lying leaves!)

These Californian mountain abies are called grandis by Bolander, formerly lasiocarpa by nursery men, and now Lowiana, and are much cultivated under both names in Europe. There seem to be forms which approach the true Oregon grandis, with greener leaves, and others that approach concolor with glaucous leaves; and I can not draw a

How does the California Abies compare with the Utah?

a sharp line. Show this to Polander and tell him he must not get impatient with me, because this low grass question has not been settled yet! I have not had a letter from him for a long time.

I see that our friend Kaphan is dead — found dead floating in a fishing boat on the lake! Can he have been 73 years old?

I have news of several other near friends death, will have to follow soon I fear — been laid up with rheumatism again!

I need not mention Abies nobilis Britteri & magnifica (which is not amabilis, though the Californians call it so) they are too distinct.

What about Duncan?

Our best regards to Mrs Parry, who, I suppose, is with you?

I have a photograph of a seaside scene from San Diego with Agave shawii (of the Monument) in the foreground, have ordered one for you; you will be pleased to see it — or will you go to San Diego yourself — if so, tell me soon, for I must give you a very (very much so) "instructive" letter, if you go. Answer soon. Shall I send those Postal Cards?

Yours truly

G. Engelmann

Look out for Abies & compare with your Utah Experience.

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St Louis Oct 29 1875

My dear Parry

Glad to hear from you — did not know what had become of you — recognized your Yucca Wh & Agave — and located you down south!

So you are going to San Bernardino — you must study me Abies Douglasii macrocarpa stick a Mr Ring gets from those Mountains. Those seeds are a cone and seeds, but I want specimens and all about it. Should like to find it a new species — but dont know where to hook on. Cones 6–8 inches long! or the question with me is whether any intermediate forms are found.

Another thing I want, and can not get is the Arcuthobium like Rhododendron, ~~and~~ (like the one you got on Juniperus) on Liboredrus.

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6429'75

Bigelow got it — without fl. Bolander says it is not uncommon, but never obtained or sent specimens. Should like to examine and make out identity or difference with Thor. juniper.

But Abies! Beg Mrs Perry's pardon, but Abies it must be!

I hate to tell what I think about them, but do not yet positively know and but want you to talk about it as my doctrine, until I better satisfy myself. But I tell you as a guide for your investigations.

Abies grandis of Douglas, the great timber tree of the Columbia Valley seems to extend to the Calif. Coast (Mendocino Bolander) but not to the Utah and north to the British possessions — green cones, leaves dark green, without stomata on upper surface (or very few?)

Abies amabilis, which Newberry will describe and of which he sent me scales & seeds, but no leaves, but which is cultivated in England

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Bot 2945

under different names, has large purple cones and longer bracts — but is only a form of grandis, with very crowded (not bi-serial) leaves, dark green above, very white below; peculiar to the higher Cascades — try to find it there! — Nobody since Newberry seems to have seen it.

<u>Abies occidentalis</u> a western form of A. balsamea is peculiar to Rocky Mtns, and is our grandis of Clear Creek; also your Yellowstone stt up to 49° and over into Oregon, where it covers Douglas' Cascadensis (fide sp. in Mt Hood) is confined there as in Rocky Mts to the higher Mountains — Hall got it on Mt Hood and mixed it with grandis. A flowing branches and vigorous young shoots have short acute, even spiny leaves. It does not seem to go into Calif. but may be on Mt Shasta!

Now we have <u>A. concolor</u>, which you know well — broad curved leaves glaucous, covered with a tomentum on the upper <u>not</u> grooved side, only on

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young trees they may be somewhat grooved, and even slightly notched at tip.

Here comes the tree which they call grandis in the Sierras. Leaving much longer than in the true Columbia grandis, with stomata on upper side. We will call it for the present A. Lowiana under which name it is described and cultivated in England — distinguished by the long glaucous leaves at least of the young trees. I have seen and cult. it in England and Germany; but do not know the flowering and fruiting branches and their leaves. Lemmon promised to send them.

I want you, who knows concolor and concolor well, to compare it with the letter. With concol. it has nothing to do, but seems a connecting link between grandis vera and concolor. As at present advised I take it for a form of concolor and would like to keep it distinct from grandis. Compare well its

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2

Oct 29 '75

bark and wood with Ceanothus — The form of the San Francisco Ceanothus which Wheelers party got connects their Louisiana with Ceanothus. See whether you ever find the broad short foliate leaves of Ceanothus in California

You will find in California no true grandis except near the coast, I think; but it is cultivated in San Francisco "from Oregon seeds." Bolander sends fragments; and it can always be distinguished by the absence of stomata on upper surface — Whether that is sufficient character remains to be seen!

Hall neglected to get the grandis (except a few branches) "it was too common, and the same as the Mt Wood plant." Vasey who sends throughout the land for woods for the Centennial promises to get me every thing I want from Oregon and Lemmon promises as to the Sierras

but I want your impressions as to these trees — want you to see thousands and give your opinion.

Remember that Nut. for the Californian which is no nut for me. Their amabilis is never Douglas' plant — but the true A. magnifica, Murray and is in Cult. in England only since the seeds from the Sierras Sequoia etc began to come in, now only trees 8 or 10 feet high — The old plants from Douglas' seeds are wondely different!

This A. magnifica and A. nobilis cannot be distinguished in the foliage! but very much in the cones — Whether in bark and wood, I do not know. Try and find out! They do not seem to mix — Nobilis not further South than Shasta — Comm in Oregon — but magnifica a true Sierra tree with Sequoia.

These two form a section distinct from all other Abies (Pinus!) by their square

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Oct 29 '75

leaves etc.

Remains only bracteata which is very distinct but of which I have no good specimen — no very young leaves or fruit bearing leaves.

So you see — to recapitulate — all that I recognize and put aside as not coming into question at all.

bracteata nobilis megalifica
and occidentalis

Remains grandis, convolvor, and Louiana and ambilis

The latter I place with grandis — Louiana probably with convolvor — but whether they bought all 4 come together I do not know — can not get myself to place your Utah convolvor with the Oregon & Vancouver grandis.

You see I have given to you a full account, which you may promulgate and publish if I should die but not use otherwise than for your own investigations as a sort of guide

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You will be able to examine 6th 7th 8th 9th 10th
at least cultivated trees of the different
forms; but the Native trees ought to be
examined and compared

Bandegee found a possible site in the
SW Corner of Colorado – the most southern
locality known to me – on Sangre de Christo
a Cousin of good'ah.

I may do very well for the seeds dealers
in S.F. to keep the names separate, even
if they prove different forms of one species.
But they ought to get Amabilis from
Newberry's locality, "the 3 sisters" (with
the large purple cones and the beautiful
foliage – I have good sp. from English gard.

Good night! It is late; more
to morrow, about Agave, my wife etc

I continue Saturday morn. You see
my astonishment at seeing a letter from
you two sheets has born its fruits!

But no more about Abies!

Bolander is now, I suppose, out and
can go back to more congenial business,
And I will have a word from him
occasionally: he used to be such

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3. an excellent correspondent Oct 29 '75

I follow your letter and these things will get a little mixed.—

You speak of A Menziesii. Where is it from? I have no evidence of its being found in California.

I just got your yellow Erythronium; new to me! Gray has just sent me his proof of the Californicum-gentianeum. Your Utah "Nuttallii" is E. Douglasii Gray n. sp. look for Nuttallii in Nevada — where my brother found it near Walker Lake. At first blush I thought yours was the yellowish Erythronium maritimum from Europe — but it is not — shall look into it — but where does it come from? where??? Curse those 'orrid collectors!

May not this seeding of A grandis on the coast and not on the Mtns prove them two distinct species? as I suggest above! Or is it the Locality? How far does it extend on the coast? I identify it (see above) with the true Columbian Douglasia grandis.

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I am glad that my names Deseti & Shawii have been adopted by nursery men. I will soon publish them. Shawii, you know is your Monument Agave to which I through your notes devoted attention. I have photograph (for you also!) of a splendid marine view with the shafts of the Agave shooting up like a 7 foot Asparagus just before blooming. Gray writes that Palmer Cox is daily expecting what he will send at once with full material. Thanks for the Deserti capsules; they come just right. The "Whipple" I recognized at once — of course!

Rogel!! Nothing better to be expected from the creator of 50 Mexican Pines. Yes, they sent me a "P. Cleveana" from San Diego which was nopalillos.

I hope to get those San Diego notes, Phoenix —, Fossen etc — but have not.

Yes, I suppose Duncan Dowd do well in San Francisco — but climate — they say there was snow a few days ago!

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Oct 29 '75

So Mr Parry wants to know all about my wife. She had much general trouble, disappointment etc etc and a severe attack of chills — Afterwards I had one too. But we are all right now — every way, I hope. She sends her love.

Mention me to Kellogg — pump him about Abies.

Greene came here to see me — gone east — will probably return to Colorado. —

Prof. Guernsey discovers that for his Rep is nothing but the old J. undulata from Smoky, which you collected in Utah.

I shall probably write soon again about Lizzie etc. —

Now you have a big letter which, I hope, will bring out a big one — return —

Your ever

Love to Dewey.

G. Engelm

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That gentle hint on P. C.
" 1206 Market Street
San Francisco Cal.

is really diplomatic and touching

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St Louis Nov 1875

Dear Sam

I begin this letter to tell you, that your "yellow" Erythronium is probably a white form (all these plants are occasionally white) of E. floribundum Benth. N. Mex. (N side, 2 bracted stg) as now characterized by Gray.

I wish you could get me a full set of the Erythr of Calif & Oregon. I will return them, if desired.

Jeffrey who in 1857 collected principally about Shasta Mountain gets several species of Allium and quite as Corydalis. Rogers River. Does any one know where that is? It is not F. R. of British Columbia.

Nov 24

I just get your letter of Nov 13th. Yes that letter was "interesting" — and nothing to change yet. On the contrary Lemon sends me a package of good sp of "A. grandis" which is all to gether A. concolor. Your remark that the Rocky Mts. bears fruit when concolor in the Rocky Mts not, is perversion — but then, concolor in Utah M bear fruit this year! And how is grandis in Oregon? We will leave that question for the present. #

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Nov '75 Nov.

P.S. It is me that opens the letter again to say, if you get across the San Felipe Agua Desert, of which you sent me seed for S. Francisco, make good measurements, send a few full grown leaves, fresh, and the points of more long, slender, laterally compressed (always fruit. narrow grove above) It dont seem to bloom with the same clumsy horizontal branches as other allied species. but with smaller thinner looser panicles.

Cf. A. Shawii (Monument at I have no good flowers nor good fruit. — Palmer got unripe fr. with fl. adhering.

Your old notes of 1850—55 are still the best I get!

This much to stir you up with reflex flattery!

You might send (Cost than offset) Agave plants by mail, to refund expenses.

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2 #

Nov '45 Nov 24

If I get more of Erythrea lutea Hell I will see. Do you mean that he will send me Gentians, or that I shall write him for them?

At San Bernardino you are in the heart of Douglasii country and will be able to make out what it is. Palmer collects it in San Felipe Cañon

F. W. Ring sends it to Vasey with wood etc from S. Joaquin Pass.

Newberry collected it about San Felipe but knew it — I have a Cone of Ring's and seeds — foliage from Palmer; can you distinguish it from Douglasii? are any transition forms? Thus far only size of cone seems characteristic; my sp. is nearly 7 inches long.

I find a note that Brewer wrote to you 1864: "A. Douglasii as far south as Los Angeles or farther — more vigorous north, but with larger cones south."

The true Douglasii is also Mexican the large cored confined to the San Felipe & San Bernardino Region, it seems

I have Palmer's things — help a little no asters of any value; such as: A. Shawii is the handsomest species — Shawii for the Monument & Deserti for the San Felipe. Gray are already adopted names on the

Nov '75 Nov 24

Pacific coast; I am publishing them just now, shall send you a copy to San Bernardino Cyanea by; you can criticise them

I hear nothing of Rothrock; don't know whether he has returned

Yes send by mail Juglans nuts — I am just sawing to pieces all the nuts I can get! — There is a Juglans Mexicana known incompletely.

You do not mention Dewey. Somewhere of his folks sent me a Davenport paper with Extract of a letter of his — glad to get it. Does he spend the winter (?) with you? is he working? He should send me Meteorological abstracts.

And Mrs Parry is not mentioned either! My wife sends her love she is well and active; so is George and I not less!

Wish I was with you! Whipping

Do not neglect the oaks, of which Palmer sends several.

Yours truly

G Engelmann

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Write soon! Your leave is little short now! When, on your to San Diego you may study Pines Parry

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Here is a second Wilkesii, W. Palmer's gift from Atkinson

St Louis Nov 29 '75

Dear Parry

your W. Virginia Kill recently proves to be Cleomella obtusifolia Torr & Frem.. The leaves stipules & calyx are covered

I got a day or two ago quite a Cobæa of flowering (fresh) specimen just in bloom — flowering in November. Parker sends photographs and Hitchcock specimens! A splendid species. Your Monument again, you know.

I now know more about this than almost any other of our Agaves, while a year ago I had only the meagre notes from you!

Will you rediscover Pring Pangeus?

A letter from Dunian from Davenport surprised me — seems to be brighter. Better not stay the winter at home

Shock off your Postal Cards!

yours ever G. E.

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St Louis Dec 8th 1875

Dear Fanny —

I write, to keep you warm! But I should scold! What did you tell Lemmon about my ?? Let him find out himself! However he seems to take it kindly. He wants, if your magnificent plans, to explore the Sierras from San Bernardino to the Columbia! Why, that is grand and will finally settle our eternal Abies trouble; it is pretty nearly settled with me, but the question remains, whether I am right or the Californians about A. amabilis. Therefore: how far north (or as far that, how far in any direction) A. magnifica extends. I believe it limited — never to Shasta, never to Oregon or the haunts of Douglas' amabilis. As I told you before

amabilis is the grandis on the Mountains, and correctly interpreted by Newberry — I have come to that conclusion already in England; I have told you that purple red & "apple green" cones are good enough in their way, but that I have found in the Black forest A. pectinata: some trees with purple, other with pale green cones side by side — etc etc.

Amabilis has a denser foliage, brighter green above, brighter white below, and grows high up on Mountains; the true grandis on the valleys — both must meet intermingle, some where and furnish trees which you don't know which is which. — But no matter fine is with them. — But I & all and I shall have for — enough of the Rocky Mtn grandis (so called)

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Dec 8 75

in Oregon, Mount Hood city — always distinguished by the heavy of fertile shoots very short & acute even spring! —

All this for next fall — if I live & have more such Bonchiel attacks as I have now (Empire Sept 74!!) again, just getting over one — I may not be able to write you an "instructive" letter next summer!

Well, My San Diego friends sent me two weeks ago a splendid lot of Agave Shawii flowers fresh!!! Hurrah!

Just in time. I am now finishing the close of my paper and your old photo of Lampi and the new stereo of Shawii have helped me a good deal. The promised stereo, of flowers of Shawii have not yet come.

If you write a little more lively, I shall try & keep up.

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good for Gray! Got a lot of Cryptogamic specimens from him to examine: Dr G.E. goes South Philadelphia next in September!

Glad if you get into moral and intellectual Winter Quarters in your sunny land down there, & have to give you up.

I felt 30 years younger when I heard of your plans and Lemmon joining you and wanted to be one of the lot but but but

and as many books as you chose.

By the way Lemmon seems poor wanting of means — would it be well to offer him 30 or 50 dollars to be repaid in specimens?

Regards to Mrs P from both — wife well, kitchen preparations for Christmas.

Yours truly

G Engelmann

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St Louis Dec 17 '75

Dear Parry —

Unfortunately do not come alone seemingly getting better of my bad bronchial affection, I spoil my work so that I find myself fixed in bed since Sunday! But I have finished Agaves in bed — They are at the printers now — Every body wants to know about Agaves — letters from Hooker & Mechan have just been answered — Must publish soon, correct or not — a beginning must be made. Have not been able to fix positive characters to distinguish accidentals from balsam!

You ought to delight in narrowness for Douglasii — I have Douglasii from Mexico, just like the California, a little larger than Colorado — but that narrowness seems peculiar. Study it well bark — wood, foliage — send specimen of bark — Is it as thick & mottled (on the cut) as the Colorado bark? dark wood?

You said comp. Convolvulus 1874 — not 75 I believe — I was mistaken.

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Dec 17 '75

And the Mandrake Abies which I h
from Bolander 10 years ago is exactly the
plant — and you say fruits this year '70
How is it in Oregon?

Thanks for that fine Gentian — but
cannot examine it now — I think
I know it, will study it as soon as up.

Writing is difficult — bad — fatiguing —
and I have nothing more to say —
Write soon & be Dear

Does the Agave make abundant shoots?
Die after flowering? send shoots
by mail (after with fruit!!!)
How large the stalks? Bracted much?
How much could I see at a glance
where now I must employ hun-
dreds of fish hooks, (without bait
and get off as little or
nothing!

Remember me to Mrs Parry
Happy Christmas!

Yours ever

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This is only a sight of life
to keep you warm in this
cold weather

gone this morning

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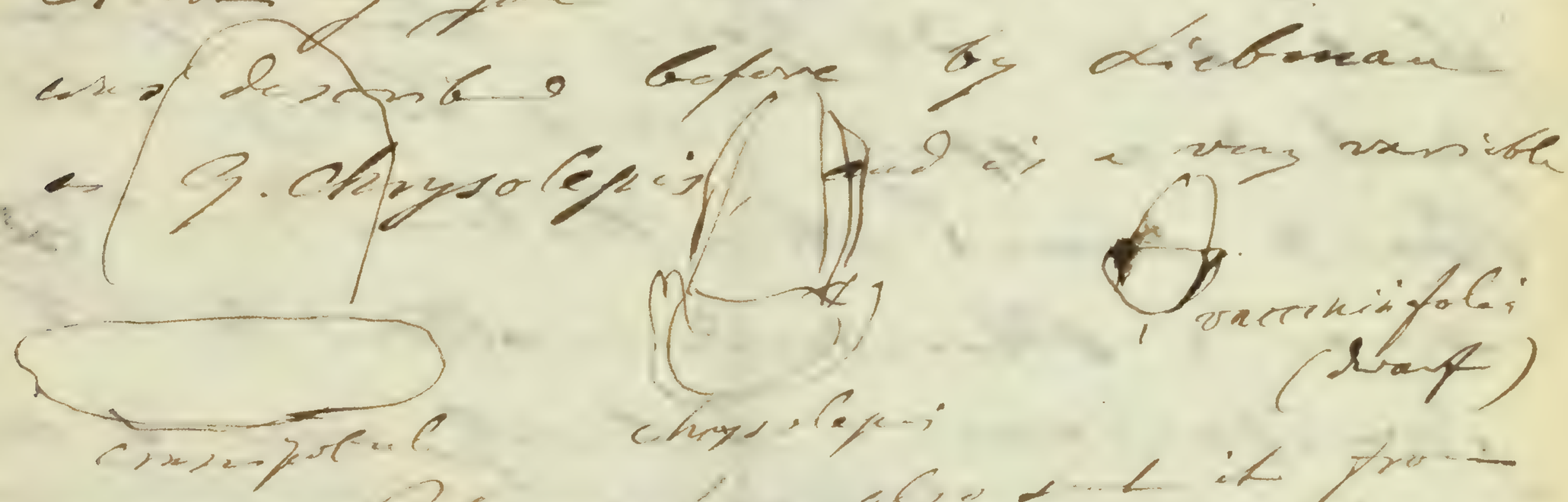
St Louis 31 Dec 1875

Dear Parry —

Pay your debts before the end of the year! Here I am! Up and about again.

Got lots of good things for you but I find myself grumbling yet! Is it not too bad.

Your G. crassipetala is good, but you have lost nothing by sorry not crediting you with its discovery. It was described before by Liebman as G. chrysolepis and is a very variable plant. Palmer has also sent it from Guadalupe Island.



G. vaccinifolia ? I am coaxing now. The true vaccinifol has a peculiar fruit — will see whether this agrees. — You ought to have looked up the remnants of styles on fruit — after being in your bag and then in the mail no vestige

remarks. Look for ♂ & ♀ next
Spring — Chionodoxa has very peculiar
fl. by which all the forms can be recognized
Yes, if I had no other Correspt. but
you I might hunger and starve !! Here
you very coolly tell me that you have
found a parasite on Liboredon — by
providing heavens, why not send it ??
But as I say, good, obliging Lemmon
sends me Liboredon with the parasite!
Your punishment shall be, that you must
pick out the male plant, for I only
send female fl. — I have known that
plant since 30 years, when Bigelow
picked a sprig, which Torrey & Gr.
Bot. named Arenthobium ? — I regard
it as a Phoradendron allied to Ph.
juniperinum, but only now I must
and can say that it is a var of
that species — except the slender ness
I discover no difference, unless the un=
known male should furnish it.
These flowering Liboredon reminded me
of Rome & Naples where very fine well
grown specimens were flowering in
bosquets in the public walks.
Your devoted Oak ✓ J. Sonnenschein

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31 Dec 75

also very variable in regard to size of fruit. Yours is slenderer and smaller than I got from Bolander.

I want more acorns — but no! hold on! Haven't I all of Palmer and Brewer's here to drown me in this deluge of oaks! — But, the more the better.

That Dougl. Macrot. has narrow off acute leaves — look at them, see whether you can discover more or better characters.

Why is not your Mexican conicolor? I have been expecting that day lemmon specimen; but find that I & the Rocky Mts conicolor the same — for say the bark is black & furrowed — that alone can not outweigh all other evidence. Mr the Californian "grandis" is = conicolor, and distinct from the Oregon grandis, and the Mendocino is same as Oregon!

Adieu! Mr leaves a box of Cone! you might have sent them!!

Today I got your P.C. of Nov. — stamped: "Missent to Boston" State news!

That 3 feet high sapling of your A. conc has old leaves (not grooved) — shall like to see youngest

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spines, with grooved leaves

That "root" of G. Whipplei represents the fibres of the leaves — it is curious.

I almost forgot your Gentianacrous plant. Today I have studied it, find it an Eustoma and probably new — no Eustoma known in California — — off the name Pennyi — Pennyan was not getting stale. I would call it E. Pennyanum. Gray has done & published already the Gentians of the Calif Flora, but this must come in yet.

Did you not meet with Agaves of the Desert? Give me the dimensions, size of leaves etc etc — Whenever you meet Agaves, cut off half a dozen spines from the ends of leaves. They dean chandeliers and easily kept you know.

Well, this will do for to day and year!

Lemmon also finds you thoroughly obliging.

I had more to say — but forgot it.

I am up but have not been out yet — next week will try

Yours truly

J. Engelm

We are well

Happy New Year to you & Mrs D.

31 Dec '75

Gardeners' Monthly & Agriculturist
Lippincott Jan 1876 p. 21

Abies macrocarpa, a new coniferous tree
by Dr Geo Vasey

F. M. King of San Gorgonio Pass.
on its lines, twigs & description 1874
Dr Palmer also cones & twigs 1875
found a cone in the department Col.
of New Mexico 1857 named by Torr
in Pacific Rep. A. Gray: var. macrocarpa
(Nobody seems to know that Parry was the
first to discover it but why did Parry
not collect it ??)

Vasey snatches at the honor to
introduce "a new coniferous tree"
but gives no character — mentions
that twigs are branchy more spreading,
slender, cones & seeds larger, bracts
not so much protruding over scales.

Well, I must do, in this, as in
other instances, what others have left
undone, must work up the thing.
I have written to Vasey and hinted
at this matter; thought he might

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turn out right; but this Matter had to be investigated first. The Microscope has thus far not revealed characters to me. By the way, Gray ridiculed my idea expressed years ago that we would have to look for the stomata in Conifers, — I see the idea developed in European publications, and I find that the microscopic structure is of the greatest importance! Will help us distinguish species, when we have only the smallest specimen.

I wrote to Gray about your Customs. He thinks it is the Mexican E. exaltatum. I don't know.

I have printed Agave and send you a copy herewith. But I hope to get from the Photographer Mr Parker of San Diego photogr. plate, for Schauer, I have has consented to pay for them, and my fear

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31 Dec 75

now is only that Parker can not furnish them, or do it too late. I shall send them to you, as usually whenever they come.

See whether you can give me any additional Agave items or corrections. —

Thus Quercus fulvescens = crassipocula, = vacciniaefolia = chrysolepis is curious in the structure of the fruit — While I was confined, unable to see patients I did a heap of work and found that those quiet morning hours accomplished a good deal — I overhauled all Browns & Hallows storms re Cambridge — But I must go back.

De Candolle found, that of the 6 ovules of the female Quercus flower 1 only developes (all well known) and that 5 remain abortive but visible (new) in some oaks (white oaks) at the base in others (black oaks) at the tip of the acorn. — I believe I wrote about it. If you open one of your agrifolia acorns you find, after carefully

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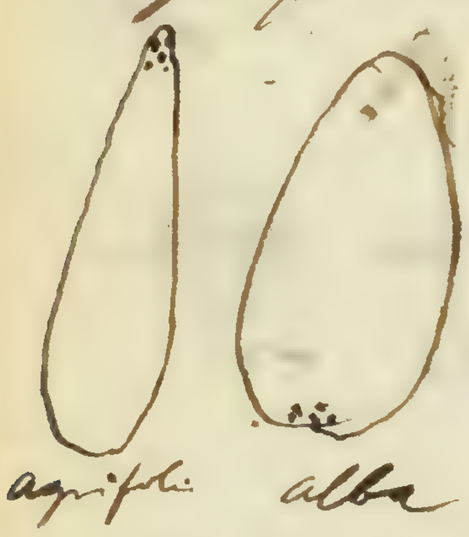
31 Dec 75

removing the outer shell, on the coating of the Kernel the 5 ovules. In your agrifolia (parvifolia) they are very distinct in other Californian, allied to alba they are found at base, but usually more difficult to find.



agrifolia alba

Now in some forms of Chrysolepis I find them below but not at base, in others scattered over the side. It will require the examination of many acorns of different varieties to find out the rule. In some of your crassifolia that I hesitatingly destroyed I could find nothing at all — wormeaten or mouldy!!

chrysolepis

I find another thing which may be a valuable character. Some shells are smooth inside, others like your little agrifolia, white tomentose. The examination of many acorns will show whether there is any thing in this.

But more important to me is this variable Chrysolepis in regard to its annual or biennial maturation

2

31 Dec '75

Torrey's original figure of Castiporula seems to indicate biennial fruit — some of Brewer's specimens seem be annual. Which is correct? or are there two different forms one annual, one biennial?

You know that in biennial fruited oaks we find in winter young undeveloped fruit, and in summer both kinds, just as in Pines. A tree may not bear every year and it may be difficult to find both kinds of fruit, one a year older than the other, on the same tree — or on the same twig; still I have often succeeded in getting such specimens. But even if not undeveloped fruit in fall or winter would only be found on oaks with biennial maturation.

I find young, half grown acorns in summer show the

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31 Dec 75

abortive ovules very nicely.

By cutting open a few dozen acorns you will readily find them.

If you get acorns of Cassipourea cut open the shell, take the kernel (with its membranes!) out carefully and if uninjured by worms etc, wrap them up carefully and send to me.

I have at last got off 10 for Silex & 40 for Johnson from Germany and orders for more seed but the Abies was all spoiled!

By the way this Wasey will fruit this year 1876 — you ought to make arrangements to get plenty of seed to Europe. My Erfurt friends would probably pay well for it, if they had the Monopoly. — We must have its flowers to help Wasey on if possible.

I have not heard from you lately!

Yours

G. Engelmann

I wrote you on the 4th

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"Take your time" in deciphering this!

St Louis Jan 31 1876

Dear Parry

This morning I got your of Jan 20 and this evening your PC and Queries &c.

Yes poor Schott was sick last winter, chronic dysentery, I think, wrote to me in April — and died July 26th as his brother in law Jafel in N York, I believe a homeopathic doctor, informed me — enquiring about the disposition that might be made of his Herbarium; together with a little house pretty much the only thing he left. — I have not heard from that dear; must enquire of Vasey.

Yes, thanks for the "chunk" of old macronupa. How is the heart-wood — redbud like Douglasii? If I write to Vasey, we all would have been greatly obliged to him if he had not only named but described and diagnosed his "new species" of macronupa. He evidently

Shall write for the Catalogue & will get from Engelmann & will send it on.

Jan 31 '76

that he would to deal all notice of botanists to their remarkable tree which, after all, he believed would turn out ~~to be~~ eventually an distinct species. Well we have to let him have the little credit. I believe I told you that I have seeds from Vasey good for description, coll 1874. but of course it would be wanted for cultivation though too much southern for our latitude.

Now for Chrysolepis. I have made a preliminary examination of the very numerous specimens of Brewer, from all parts of the country and all sorts of localities — trees and bushes, large and small leaves; an extreme Mountain form is I think C. vacciniifolia of Kellogg almost glabrous, no scurf, some forms pubescent, others not. — And all transitions from the Castanopsis (which he scarcely has as Castanopsis yours) to the small thin cup. — mostly with the redbrown fuzz (fulveseens!) but some also without it. The male flowers are characteristic, and some

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them I have ascertained that Pelham, Oakes from Grandalope Island also belong here.

But the question of the maturation of fruit is quite an interesting one and more difficult than you would think — I incline to the biennial fruit, from some of Brown's specimens; but others, as I believe I have told you, have mature fruit at the apparently juvenile branchlets; now, either this fruit is annual, or these branchlets made no further growth in the second season but to mature the fruit. — Is it possible that in that arid country and in arid seasons they may do that? Close examination in the Country must decide these questions. Your specimens shows axillary buds, but no female flowers. — It is possible and it occurs here too that these trees bear more every other year, so that you may find in spring — on the young shoots of the

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season, with half developed leaves, the female flowers, and, I believe, towards the upper part of the young branlets while at the base the male fl. develope. Of course in all oaks, (annual & biennial maturation) you would find the ♀ fl. thus — but in the biennial they do not develope the same season. There is no doubt that many Borrer's are some with old fruit and young — just as you find it in Q. Cornuea or nana or in California in Q. Sonomensis and Wislizeni — but where the leaves are persistent (evergreen) there is a little more difficulty.

I must add that this confounded Chrysolepis has other peculiarities which class it with or near the White and Live-Oaks but is apparently distinct from both Black & Whites.

I believe I wrote you that Palmer collected a number of shrubby small leaved forms back of San Diego near San Felipe and near the boundary line, — and have sent you leaves of them.

Chrysolepis [illegible] from Cal. [illegible]

Jan 31 '76

2. One of the peculiarities of these Oak is that the aments spring not only from the axils of the buds or scales at the base of the young shoot (as in our oaks) or of the lowest young leaves, but also from buds of last year near the top of last year's shoot, in which case they are paniculate — Of course nobody collectors less than any body else, pay attention to this and it is only here and there that a specimen is met with which accidentally shows it. — If you [illegible] these oaks or any of it forms in flower, pay attention to this to verify it. And here I will tell you one thing. Your collect things is my line largely and charge me accordingly — and also for any thing you send — you must have quite an account already if you add up the poststamps alone. You need not feel any delicacy in these things.

Enough of Oaks! No!

Your California Black oaks are

1. Quercus Sonomensis (= Kelloggii etc) all over the state
2. Q. Wislizeni, similar in foil, with narrow oval, lanceolate, entire or sinuate pinnatifid or partly evergreen leaves, Anderson Valley etc always? north of Frisco

Remember that Sonoma Co. is a very mountainous region. Don't forget that outlying Sonoma Co. is a very mountainous region.

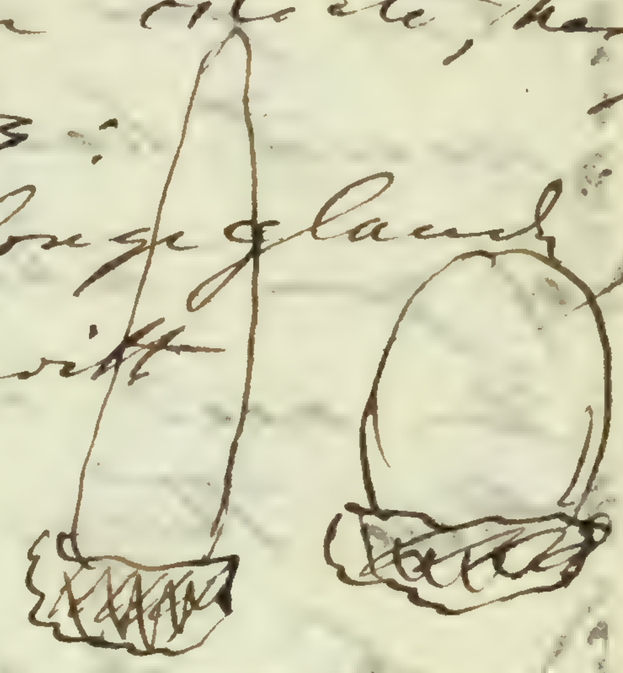
3 Q. agrifolia tree or shrub and all sorts of variation; with acorn similar to last, but annual fructif. therefore a curiosity in its way!

But in my Classification of Oaks soon to be published, we have black oaks with annual and such with biennial fructification (also one of the former in S. Carolina) and white oaks the same — a white oak with biennial fr. is that curious chrysolepis!

The white oaks are such 4/ with large, gray to mouse tads H. Q. Garryana } which perhaps belong 5 Q. Douglasii } to gallo.

6/ with small bright brown ciliate, hairy or almost glabrous buds:

6/ Q. lobata (Hindsii), long glands Brown has a form with short oval glands probably not distinct from the other



Therefore attention! to form of glands

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Jan 31 '76

7. Q. undulata to which pungens, berberifolia, dumosa? may belong.

Whitoaks with biennial Mattentia.

8 Q. chrysolepis of which enough is already said.

These 7 or 8 forms probably comprise all the species of California — and Douglasii I have at present only on account of Hooker's name, but I'm no classt that I am, I fear I have to break it down, also leaving only 7 species.

Now, again, enough of oaks! Rob Carr is under the weather overworked, and is going with his wife to California for a few months and all over the State; offered to take me along! You may imagine how my youthful (useful) heart leaped — but "sober second thought" as Van Buren said, bade me decline. It would not be so much benefit anyhow — but

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What a pleasure to meet you there and study. Prey and Cathy in loco with you. I have too much to do at home to straighten up my things

I do not know what Lemmon has discovered, but my mind is made up about Q. nobilis and I have told you that it is a purple cone (form Mountain) of the true grandis, which is cultivated in England from Douglas' seedling a single one having been saved and propagated. Newberry was the only one to find it after Douglas & describes it well and well contrasts it with "Q. grandis" as he calls the Sierra tree (conicolor) I'd a few leaves of the Barclay specimen

But I am getting garrulous when I get on these topics! and I better shut up!

Remember us to Mrs Gray and believe me ---

that you will have to look sharp for oaks oaks oaks! or meet with the displeasure of all good men and

Yours G E

Dry connection with Egypt

Transcription

Transcription

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St Louis Febr 7th 1876

Dear Parry

I write to you often to engage your interest in my pursuits of truth and knowledge under difficulties!

O, those Oaks! They are a great deal worser than the Abies. And the White oaks especially!

It seems that all the Californian Oaks occur as large trees or as bushes; and this is the case more in the White oaks and Chrysolepis than in the others — beginning with the ~~Californian~~ Colorado G. undulata which you must have traced in Arizona and clear to San Diego. The only white oak of which I have not seen bushy forms of is G. Garryana and this, I find, does not occur

Usually 1 or 2 years collection proves that there is enough in the thing — crop and seed and variation between year and year & the warning to collectors

for south of San Francisco.

I find your Calif. white oaks (excluding now the peculiar chrysolepis) easily separated in two groups, one with large tomentose or hoary buds of ashy colour, and a second one with short small bright brown smoothish or ciliate or slightly pubescent buds. The former comprises G. garryana and Douglasii, which I surmise are not to be distinguished. The others undulata, dumosa, pungens, berberidifolia and I almost suspect even lobata, though that is a stretch.

You have none of the first in the south, but the others are very prevalent. —

I would class these in deciduous and in evergreen forms. (species?) The latter comprise the spiny leaved berberidifolia, which is probably not different from Emoryi Torr. and pungens Deb., and dumosa Nutt.

6. the oblong or oval leaved G. oblongifolia

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Feb 7, '76

folia Torr, which was also collected in your part of California San Gabriel etc, and has often a few spiny leaves

Among the deciduous is a the common undulate with sinuate – lobed or sinuate – toothed leaves probably always a shrub.

b. the broader leaved, more lobed form (something like G. stellata oblusilobus) usually named G. Gambelii, which you have from Colorado & Utah – shrub or small tree.

Is a form hitherto unknown to me "common on the plains of Los Angeles, a large middlesized tree" with oblong leaves, seen only in fl. – another form of same locality, also a tree, has sinuate or undulate leaves. I enclose a few young leaves of this "large tree" which you ought to find, and make out. No mature leaves nor fruit seen.

These are the white oaks.

Q. chrysolepis, the live oak of California, is peculiar. I am now satisfied of the biennial character of the fruit but also of the fact, intimated before, that many bracklets, bearing fruit, do

(make no new shoots or leaves)
not grow) the second year, except
maturing the fruit. I find several
sp. with very young fruit in the fall
and one or two with old and young fruit
on same specimen. But they seem usually
not bear every year, and their often not growing is 2 y
is very deceptive. Examination into this is impossible, but ob
the Black oaks are

Q. agrifolia with annual fruit
Q. Wislizeni somewhat similar with
biennial fr.
Q. Sonomensis with biennial fr.
Q ~~[illegible]~~ dumosa quite a peculiar
thing — also with biennial fruit
Of these I know no doubtful varieties
but the White oaks! Oh!

Now you look sharp for those
White oaks, their buds across it,
— don't forget that Los Angeles tree.
More anon, if you
have not got enough yet!

Yours
J. Engelmann

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St Louis Apr 7 1876

Dear Parry —

yours of March 26 and Julia & Dargil. seeds are in — thanks — the seeds are good. Jas. is probably Bigelovii, which Boland & Schott & Sw. Arizona — the only caulescent of our flora, like yours. In my copy of Bot Bound I made a ? at "stem 2–3 feet thick" but your 18 inches make it not impossible. It seems the same thing — your leaf specimen and is incomplete as it don't give the point or top which is seen is very thin, filiform & others acute. Bigelovii is said to have a wide panicle, 1 foot diam.

I am busy professionally and glad that I have finished Calif Cactaceae, I would have no leisure

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Ap. 7 '76

now for it. Next will be Guernsey — more an introduction than otherwise

Dont you find new Cacti, such as Bigelow collected & Ech. polyacanthus and the polycephalus the fruit of which, ripe & black, is enveloped in wool. Bigelow got it in the desert. Seed plants and especially notes are desired

There are also no doubt more new prostrate Euphorbias in California

I have written so much on oaks without digging an answer that I may as well shut up.

Had a good letter from Dunn; his health seems not worse, has more zeal and seems lively and working — but you know of him.

Did you confer with Kennon about Mon. ⅌ 20 & have offered him?

Yours Tr.

G. Engelmann.

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Microfilm ex. to Mo. G.

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28 Apr

Dear Parry I send this off as written: you see G. E. Quercus. I have directed your attention already to the question of Vernation the folding of the leaves just emerging from the bud.

I wish now to ask you to pay good attention to the persistance of leaves. Evergreen and Deciduous Oaks.

May 20 '76

Decidedly evergreen are Q. chrysolepis and, I believe Q. Wislizeni, and some of the shrubby white oaks, of the south — Q. agrifolia seems intermediate. Dr Lander 1866 when he still studied such things, informed me, that he found flowering agrifolia with and without old leaves. — Therefore it seems a doubtful character in this species.

In some species (same in Europe as Asia), especially in milder climates, the leaves persist in winter, but fall when the buds swell in spring; a real evergreen oak ought to show the leaves of the year before at least till the end of summer — sometimes for the greater part of 3 seasons.

Look out for

Vernation Persistance of leaves

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Specimens ought to be so gathered that they show the persistance of old leaves if they do persist.

May 20 '76

I find that De Candolle speaking of the biennial maturation, already makes the remark, which I made in regard to Chrysolepis, that fruitbearing branchlets sometimes do not grow or not make new leaves in the second season, their function being only the maturation of fruit. So this is settled, by authority, curious as it may seem.

Your plant is Aphora serrata (Torr Bot Bound from the desert) Asyphotham serratus Nutt

---

The male flowers in Juneus have more decided characters than I thought. Don't neglect even old effete catkins which hang to an oak bush

---

It will interest you to see how your Orthilia appears already in German nursery catalogs. In the same catalog I find Agave Shawii and Deserti by name!

Had a letter from Parry. He wants a Signal station on Pike's Peak.

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Alton Ills May 20 '56

My dear Parry

I have not heard from you for many weeks — no time or opportunity even to mail a pencil written P.C.? or do the Cacti & Agaves of the west catch you & pin you up?

The above Genera notes you can add to the many already sent you I have been much unwell, and have only now been able to write to Lemmon. Has he written you? I told you of the difference of the bark structure of his two species. I want you to follow this up in your explorations, see, whether a constant character lies in this bark structure.

If you see an oak cut, examine the annual rings, and see whether the first (inner ones) are the largest or the outer ones.

I believe I will study these

things in Philadelphia and Lafayette
wild woods to younger men!
Cut how much more satisfactory
and "instructive" are the wild woods!

I have answered Lemmon's
letter, but if he is with you,
it may be long before he gets it.
I close and will write
again, when I hear from you

yours ever

J. Engelmann.

Mr A Carr was in Los Angeles,
but is I believe impatient,
and will move himself with
Oaks and Pines and small g.
the railroading again; so he
is coming home

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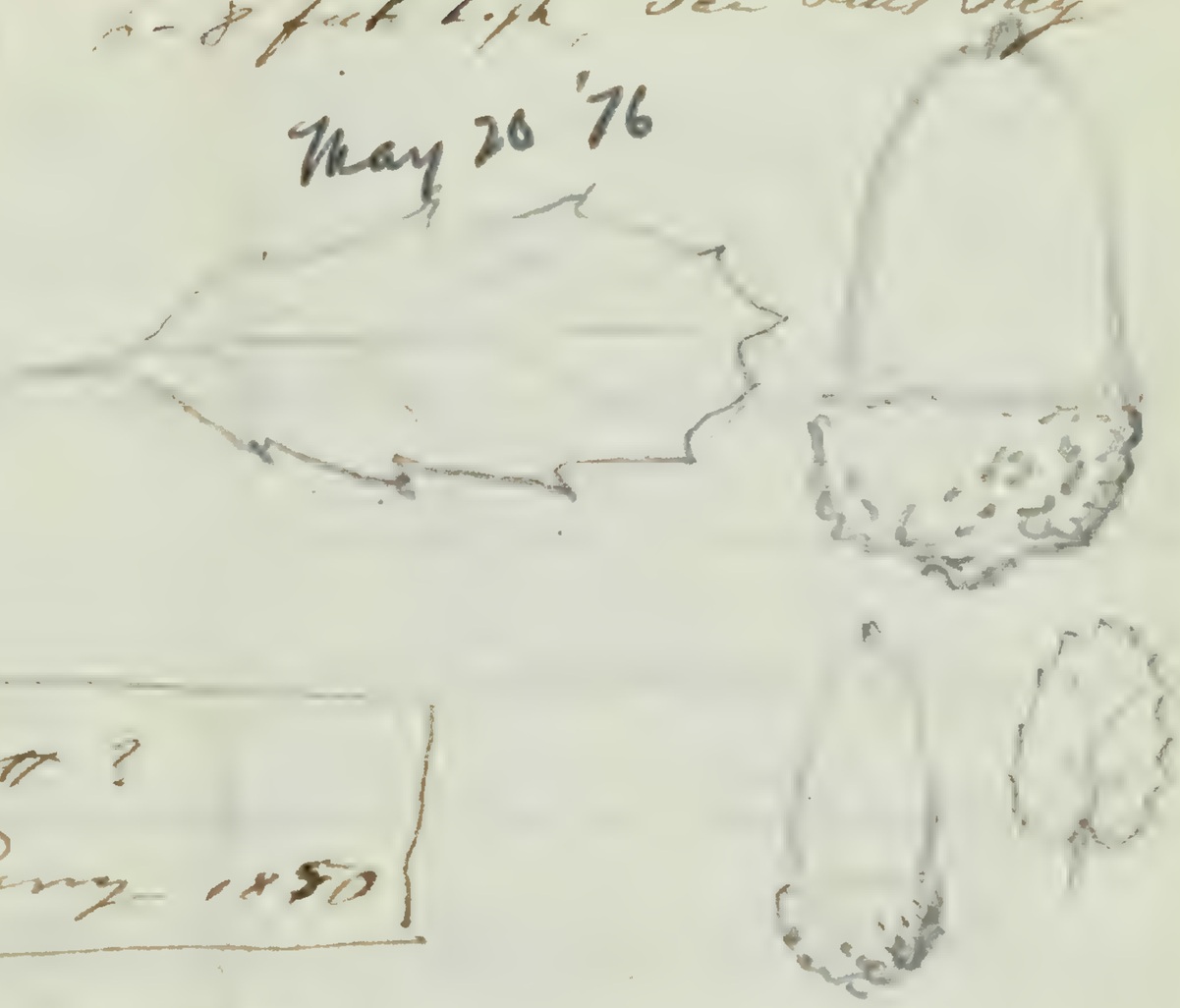
Quercus acutidens Torr. Bot Bound. — fig.
Specimen in Hb Torrey: "6-8 feet high, San Luis Rey
Dr Parry 1850."

May 20 '76



evidently evergreen

Quercus dumosa Nutt?
San Diego Dr Parry 1850

Herb Torrey

Both are identified, a large and a smaller form, with very knobby cups — evidently of the so called Q. Engelmanni order — but we want to see more of them and their flowers.

~~Q. [illegible] is entirely my~~

So, of course, you will look out for them, and complete the work begun 26 years ago!

I find both in Hb. Torrey, which together with those of Hb Gray are now in my hands.

I find a number of plain characters in Oaks, heretofore entirely overlooked. DeCandolle has pointed out

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The superior and inferior ovules, which are good — but not entirely reliable in Q. chrysolepis — where they are often lateral.

The ovoid ~~and~~ or long stiped stigma is another nice character.

Another is the knobby scales of the cup, which I find only in white oaks, while the Black oaks, to look the annual fruited Q. agrifolia have so — thin scales, no knobs corresponding to this character the above of Wittiden, as well as chrysolepis, are white oaks, but, like the liveoak, evergreen.

Our Mechanics distinguish the wood of black and white oaks, why should not veg. anatomist do?

Look at the rings of oaks and trees in general, when you have an opportunity.

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May 20 '76

I open this letter again to add a few words. Though I have written several letters since I believe I have not acknowd yours of March 12 (recd 24th)

Baron Ostsacken called here and I told him of your stay in S. Bernardino, upon which information I suppose he hunted you up and was fortunate enough to discover such an excellent guide as you are.

Do you find any of your Juniper prickly-phloem to in S. east California. — Watson blundered a little in calling it the Guadalupe Id that Juniper of California was Osteosperma. It is plain S. Calif. I have no var osteosperma! (as that strange Pine is a two leaved P. insignis, not 3-leaved, as W. says.

I am glad Palmer will get

or try to get. Agave New Benyi
or find out more about it.
And he might do a great deal
also in the Cactus line. Those
Opuntiae are so imperfectly
known and flowers and fruit
often confused, I believe May 20 '76

Lemaiosa must have been shabbily
treated. Why did he send it all?
probably to get at least a small
amount back — 1/6th or 1/7th!

G. E.

After careful examination, I find
that that purple cone of Rattlesnake,
of which I have spoken before, is
Balfourniana (of which he obtained
young fruit but no mature cones on
Mt Whitney) but really pendersa
or closely allied; — leaves peculiarly
pale green — "Head of Pere Ch"
what that is I do not know: near
Kern River, I suppose — It is worth
looking after.

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G. E. again
and again

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St Louis June 7th 1876

My dear Parry

I suppose I have to address you still at San Diego. But what are you doing and what are your plans?

I get to dig a good lot of things and your P.C. of May 28:

No. 3 is a form of Cerphoemeus - A Gr. hypobrixia of Mexico. I planted it.

I also got my Cat. of the Calif Flora - a splendid looking work (the Fl. Calif.) & Cat. are cited page 250. Shall send you a copy together with my works. I have finished them and they will be out in a few days. - But I am only half pleased as the thing is, notwithstanding all my labor and exertions, not so thorough as I would have wished. Well it will at least, I hope, stir up people and they will criticise and correct errors! I shall send you several

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copies, as soon as out. I have in it taken one of your & Palmer's spiny leaved Oak; for Muhlenb., dumosa, to which also Torrey assimilates Calif. But am I right? My friend and Cousin J. Fittmann of the Coast survey stationed at Santa Barbara (Nuttall's headquarters 40 years ago) has shown the greatest good will and has sent me any spinyleaved chaparral shrub from Nuttall's heights. The first thing was Centaurea ilicifolia! of which I was glad to get the fruit, which seems unknown, a dry drupe, no achenium! — Today I got from him Q. agrifolia, the low shrubby small leaved form — could that have been Nuttall's dumosa ?? I believe no specimen does exist of his coll. — But then Nuttall knows Q agrifolia well enough — says it is the only tree-oak in Calif.!!

But now to your & Palmer's things. I had written to him to Arizona, but question whether he got my letter. Palmer No 5 is the nice Opunt. tessellata of which living (rooted) plant would have

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been very acceptable June 7th 76 The two oaks are the same with ours, P. sent years ago in abundance and, I think, are the spring leaved form of the Colorado and Utah. You will see all about it and the Canon of the Arkansas in my oaks. — The milk pl are very good and acceptable

Your Berfolia fruit, good! Then ought to make it — business and get plenty when ripe. I am curious to know how it is when ripe; also how it is attached to the stem — erect or pendulous? from the specimen I should judge it to be erect, for the peduncle is short and thick, while in the Quercus with pendulous fruit the peduncle is long and slender. — I have not opened the fruit — intend to let it mature, if possible. —

You will probably not get into the lower country — to cover the Sta Barbara Mountains etc. — Well, we have to wait and see

Lemmon ought to have got Rio 820 before this. — His letter from San Bern. when he left up I have got, with milk pl — or did you send it? It is Carrolton, as I take it. Do you make out a difference?

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you will be more opening or liberally that I ought at least pay postage, and not saddle you with the tax. Here then a small contribution.

I corresponded with Peck — Empire as friends want to go there: Ten dollars a week!! Rig!

We are in the midst of painting and cleaning generally, so that I am astonished myself that I could finish Oaks! — But "Schlossingly" healthy — therefore Conserve enough.

I find that Delaville has noticed the same stability in evergreen oaks and nothing new shoots. They are Conservatives! and I speak of it in my paper.

Yucca brev. Fruit pendulous or erect? pulpy or dry — when ripe?

I have thus spoiling been overhauling our Herbarium — some nice things to publish. Lesquereux still with you? Give your scientific family, your staff my kind regards — this includes or ought to include Mrs Parry

Write soon & oft

Yours truly
G Engelmann

St Louis 24 July 76

Dear Parry

It seems preposterous that I should send you plants to your mountains, but I can not forgo the pleasure to send you a fine large flower, which after all seems nothing but a large flowered form of your Bottorella, now Saxifraga Caespitosa it comes from Oregon where a gallant Captain (all Captains are gallant) who is positively after eggs & birds, sends me nice botanical specimens. Does it seem different from the yellow stone plant, or only larger?

I have at last a letter from Newberry who is charmed with the little Grass, which an engraver at Hirsch undertook — He is undecided as an Andropogon or Panicum but very odd grass, no doubt

I must leave it your own
in honor of Lemmon.

I have got the letter by your
J. Chrysolepis — but nothing
startling in it. You must have
seen my oak paper and in
it I set about Chrysolepis — Speak
with Castanopsis and their years find
must be looked for — Castanopsis
has 1 or 2 fruit among
a hundred — but then I
did not hunt for them
accidentally got them.

It is possible that we
(wife & self) may meet Gray
and wife & others in the
Mts. of N. Carolina about
Sept 1st; we month after
we go to Philadelphia where
George now enjoys the
Temperature somewhere above
zero, and nearer Ford from

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24 July '76

there any where else on the globe. By the way they have it almost as hot in London. The coolest region they far (as I of the Mountains) in the Manitou Valley. The thermom. has not been above 94 as yet.

I have not much to send you — say — after the effort to offend Oaks there is a complete let-down! After a while I will attack Aliens.

If the blind mice eat off Powell last year and we through them off among them the two Colored Aliens and I was then forced to find a name for our "grandis" and wrote him that I took it for a new sp. and provisionally named it H. sabalpina. He then requests a short character. I am obliging enough to write it

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[illegible] a few days since I did not consider there was one book & a considerable portion of it Mosses & Liverworts — but it will soon determine — for his report —

Has he been the cause of children's chasing to and fro to the Sec. Nat. "as he is not yet publishing his report"? — I answered very indignantly — but then — what is the harm? Mustn't I appear like a youth who employs secondaries seems to get into print! Amazing!

It is a long time that I got from Cast — but I suppose you are very active and successful. Follow up those two or three oak shrubs with spring leaves — one is probably the form of coccinea which you got — that — the other is Damosa (Quercus falcata), and there might be Ter. Europ. also — while such forms of Quercus, Chinquapin & agrifolia also have made their appearance — Have you got any other & better? Yours ever G. Engelm.

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Have in a little envelope, all Chamisso's letters have you also Sieh's room, & Ehrenberg's — as I am the 3d Klingert letter in question — pray the 3d Klingert

St Louis Aug 17 1876

Dear Parry

you used the best means for making me answer "Stante pede" Lamarckia! What a well! Yes, it is so! And here comes a Spanish specimen from my herbarium for you and Lemmon to compare. Why that should be classed among Festucaceae I can not understand — probably because I do not know enough. I have informed Thurber at once, before he continues and spreads the blunder — but there is little danger, as the Lectotanist visits him pretty often.

Well, if we can not do better, we will mask our retreat by scolding the botanists, who have placed Lamarckia where it can not be found!!!

What fellows!

Mrs G.S & E. Yours ever G Engelm

Has Lamarckia got Festucaceae?

Lectotypes?

Lamarckia?

But your Bellis story is a pleasant and we ought not ridicule poor Kellogg when we are guilty of just such a blunder.

I had sent my publication to Bolander and also for Kellogg. How is it that you do not mention Co. at all? is he not in Sierra? that would account for our not hearing from him — or if not getting his Copy.

Have some serious misgivings that his G. Microthus (a stupid name) is G. Wilcoxii, and an older name. I must consult Gray, whether the well described, named and figured G. Wilcoxii ought to give way to Kellogg's blundering.

Together with your same a letter from Boissier at Geneva acknowledging very flatteringly my Cuscuta paper. I can feel for him when he says

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Aug 17, '76

in speaking of his great Flora orientalis, that he has not yet attacked the oaks, but the necessity of soon being obliged to do it — makes him shudder in advance, with the multitude of "species," and the incompleteness of specimens etc. — Sont comme chez nous!

My wife has had chills and though well enough now, is retarded in her preparations and we shall not be able to leave Gray — NC as soon as we expected — Canby and Sargent will also be there. Pity, you are not of the party! But I would like better to be with you! Flattering, is it not?

Well — I shall probably write you to Empire from NC, where meeting Lobies!

I had a letter from Greene a day or two ago. Did not know

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that he was so well situated
botanically. Disclosed him at once
the mysteries of Abies, and informed
him that he was on the dividing line
of A. grandis, concolor, subalpina (Clear
Creek grandis) with nobilis thrown in — and
that he must find out all about them.
By the way, planning the other day of
your Oakes Peak descent I found the
memorable phrase "in trees include the elegant
pyramidal form of Abies grandis, here remarkable
for the unusual length and breadth of its leaves"
which Lamarkian oddness struck me, that
I did not in those words at once recognize
or suspect concolor ?! But you never
collected the first fragment — you know
the tree too well! — That is what makes
such men like Palmer so useful —
they know nothing (I hope you will keep that
for yourself!) and then gather every thing
(Gregg was such) — unbounded zeal & energy
with slight knowledge (— or completest knowledge)
I wrote to Palmer a few days ago to remember
Remembrances to Mrs P. and
inquire to the gracious Mrs C. I hope
Mr C. will be pleased with Mrs P. — shall be also

Mr Charles Sprague
Jamaica Plain
Mass
Charles Sprague
Jan 1 1873

Atlanta Ga Sept 4 '76

Dear Pary

You see I am here "mid Sherman", no, with Canby bound for Stone Mountain!

We have had a hasty round-about hunt, no rest, no ease, no repose!

At first we hunted up Gray and party (Mrs G, Canby & Redfield — Hooker had excused himself because just entering second marriage!) here and there until we overtook them in Asheville (Asheville) but instead of going up the big Mountains it was resolved to take them with Albies Fraser's on the return trip and go to "Cesar's Head" an outlier reaching into the Palmetto State, a few pleasant, but also very busy days tramping — of

I will only mention Pinus pungens. Splendid Vegetation — what a Contrast to the R. Mtns! A group of Kalmia 20–25' high and 10–15 in. diameter etc etc. —

While the party were enjoying themselves or working yesterday, Cauley & myself came here to Dr. Stonemountain, will all then go to the NW slope of the Mtn and ascend the Roan for Ab. Fr. or some such hyeroglyphic.

I write also to let you know not to be uneasy about me, that I should be tempted to visit Dr Mellichamp as I am in the Carolinas — Yellow Jack is too forbidding there.

Now I wish you would, better than we did 2 years ago, study the question of the closed cones of Pin. contorta.

Please get a few good plump

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closed

Sept 4 '76

large cones, which most probably would contain good seed — 2, 3 or 4 years old — and let me then next spring prick the seeds and sow them; also to make experiments, how they might continually open.

Remember me to Mrs Perry and to all the friends in Empire. I suppose accordingly Mr Morris friends have been at Rocks.

Yours truly

G Engelmann

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HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Octob 15 — 1876

Dear Parry

you do not deserve a letter from me, but then, I am, you know, a good and forgiving sort of man. We have been all over the eastern world you know — first with Gray & wife, Canby and Redfield in the N Carolina Mts, and on Stone Mountain, delighted with a number of my pets Abies Fraseri, Sporotrix melanosporum Quercus Georgiana etc etc and a good many other things besides — It was very hot then, sometimes unsupportable (we did support it, though, in a measure) to day we are in the midst of a regular snow storm!

Then in Washington — I was looking for your Brussels Carpet, but found only coarse matting in the Agricultural and Dr Vasey. He was very obliging indeed — I found a good deal there in the coniferous line, Newberry's types etc etc — and many new things from Califor

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and elsewhere.

Then to Philadelphia where in the Centennial, with Mechan, Hoopes, at Cooley's and in New Jersey time flies fast. ~~Both~~ From Philadelphia we came straight here, sailing around New York, under the wires of the future bridge. And now we feel as if we had loafed around enough and, winter setting in, should return straight to St Louis.

Have you got a letter from me in Empire?

Palmer was here for a few days and told us of you and also of Lemmon's failing health. Too bad.

By the way — and now you sharpen your recollections, so that you may be able to decide —!

In the Government Coll. at Centennial are a great many sections of wood which I closely studied. Among them is Libocedrus from Lemmon and from Palmer. The former has fibrous bark, much like that of Sequoia, only a little coarser; Palmer's has rough and coarse furrowed Pine bark, with not any fibrous texture. In the California State Coll (written the Pacific R.R. Coll) is also Libocedrus, with fibrous bark. Gray

Oct 15 76

recollects distinctly the fibrous bark of Libocedrus. But Palmer is positive about his pine-bark Libocedrus from the Mountains back of San Diego.

Now we constitute you judge between P. on one side, and Lemmon and Gray & Pac. RR on the other: How is the bark of your Libocedrus ? ? ? Looks enough for you!

But I have something worse for you; a case of breach of promise. In your "Lemmonbotanizing" in Journ. Acad. you mention Abies concolor this

Didn't I tell you, that that Abies note was for you alone! The misfortune is, that Mr Ward of Washington (of Powells Exp.) sent me the same plant, and I gave him another name, privately, for it: A. subalpina; and that has be to be published in Nature American Naturalist.

Now I shall, to spite you and Ward, restore the old name of Lasiocarpa for it, if I do not conclude to call it balsamea var concolor.

But I want close by scolding! I learn from Palmer, that you had no Conif. seeds in Colorado. Probably in consequence the posts in

month last; we in St Louis lost Peaches, Plums and Maple seeds through them, after an early and warm Feb & early March spring. — An interesting question will now be, whether next year will bring abundance of cones and thus go on every other year, till again a late frost in some spring, makes them skip two years in place of one. —

Write to me at St Louis 1003 Jefferson.

Yours ever

S Engelmann

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St Louis Nov 13 76

Dear Parry

coming home from — professional visit I find your letter of 11th and having 10 minutes to spare, write you at once, to prove to you that I am a better christian than you are. Did you not get a postal from me from Cambridge? I was waiting for an answer on that all the while; am home over two weeks — in the midst of professional business — working up arrears in Meteorology, that ate up all my time for correspondence and still calls for botanical work — my N Carol & Coll, Washington (Vasey's) box, and Cambridge notes are still as they came here, and have come Rothrock and wants Wheler's & your collections — my foundations workmen up at once !! Poor me!

I would say come and spend a week here — but I am really too much distracted to be of use or entertainment to anyone.

From Englemann I have had from Palmer, it is P. melanadenia Torr — Col Bound. — The Juncus is our old cosmopolitan find. J. Gerardi, and the Scleropias, you speak of, have not turned up. —

I wanted you to find transitions between chrysolepis & vacchinifolia and not to tell me that they are distinct — I can well distinguish forms in herbaria, but

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in the woods only, where we see thousands we can judge of the value of the character

Nov 13 '76

Thus a new light has dawned on me in P. Prinus. The eastern (especially Alleghany) Prinus, which I take to be the true Linnean Prinus and P. monticola Michx is most probably specifically distinct from our western Prinus castanea (or accuminata) but both may occur with narrow, acuminate or wide obovate leaves — heretofore we (I, at least) distinguished the broad-leaved as monticola and the narrow as acuminata because we did not know better! Prinus or P. monticola does not occur west, but acuminata is also sparingly east. — Do you have it near Davenport? As to Prinus prinoides or prinoides I am in doubt.

So you see the Oaks hold me — oaks on the brain! — But it is too mean of you to speak of them so contemptibly — and why? because they tore your pantaloons in Utah!

We had a very nice time in N Carol — only too short, not much more than a week — and a day on the cañon Stone Mountain.

La hasta (as ever signed famous) yours truly

S Engelmann

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GEO. ENGELMANN, M. D.
3008 Locust Street.

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GEORGE ENGELMANN PAPERS

St. Louis, Mo., Jan 12 1877

Dear Parry,

I wrote you about 4 weeks ago and gave you Engelmann's names. Have not, but intend to, return the Cones filled with oaks, but my working room is too cold, and my own cold too bad to think of it now.

Meanwhile I can not do better than send you Thurber's memorandum letter just rec'd — too good to be put away among my old papers. Return it!

He comes 3 days to NY to see me while I did not come to NY at all. Meehan had written to me in the ~~old~~ same style!

I my answer to Thurber I must try to put a damper on his exultation by reminding him of our wide Lemonella, which he hugely approved of!

I am glad to see him in such excellent spirits. Is it a little "stimulated"?

I send you that Cusuta notice also one about the nature of Pine cones. Yours ever G. Engelmann

What, coming season?

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Geo. Engelmann, M. D.
3003 Locust Street.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

St. Louis, Mo., Febr 14 1877

Dear Parry

Still sorting specimens? I hope you will have a fine set (more gus) for me (for which you will charge) I have not found leisure to sort. was deep in Harbourings Oaks, when a new paper of Mr Nab of Dublin comes which anticipates me!! But I can go better!

He recognizes Hitchcock's species in that old specimen of Douglas' and in Lyall's Oregon plants — but don't know it from Rocky Mts; he reestablishes the species and thus knocks my overdtali and subalpina on the head!!

Fraxini he knows only from Northern Spain and thinks it is scarcely different from balsamea — of course! It only grows in N Carolina Middle about amabilis, grandis Douglasii Well I have thus got among the rosin trees again for a while, and thus also to demon. What has become of him? He has not responded my last letter Was he displeased with the amount (of 20)?

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I sent him? Or perhaps at my criticism (asked for by him) about his extatic Sequoia paper, which I called "sensational" a little too much so for my taste. — Feb 14 '77

A year ago he gave me measurements of trees of Grandis (convolor) and amabilis (magnifica) and added a column: Cones br. which I read Cones length; but this makes the cones of the former 2–8 (meaning: inches, I suppose) and of the latter (magnifica which has the largest cones): 1/2 – 6 both average 3–4 inches and cones only 1/2 won't do — What can you tell me? What do you know about these cones?

How is Deecean getting along? I heather mild, may benefit him?

yours truly.

J Engelmann

16 7/12

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Geo. Engelmann, M. D.
3003 Locust Street.

Missouri Botanical Garden
George Engelmann Papers

St. Louis, Mo., March 7 187[illegible]

My dear Prof.

Your letter & package came a week ago. Many thanks. I find the specimens — many very good things — a number of the varieties are not over well preserved. Cleome ought not to be done for you to make much of it. I will send in a day or two the dried specimens. Your Euphorbia without fruit looks a little like Brachycera, but am not quite sure. I forget what the other was.

We ought to have a woman like Mrs Pickman here — we are doing next to nothing.

I believe I told you that Mr Nuttall is publishing his whole work! He pretends that the subscription is flourishing, but I do not think it. Altogether he is in a muddle. I do know Torrey intends to have from Cleveland a strong letter of recommendation. Torrey is now asking for his book. I second it second time that I should publish Gray in one of Torrey and perhaps use for Cleveland, looking over Torrey's notes for him & find a paper, marked

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Mar 7, '77

"G. Parryi" with broad winged seeds, and I think I got it on Bitterroot pass; unfortunately the label says nothing about it, nor does memory serve me. — Now my specimens of good and clear Parryi have none of them seed. Have you any? — The tall many flowered Parryi with small membranaceous calyx and scarcely any lobes which I found near Summit, much below its proper locality, and which, I think, I gave you a specimen, is full of seed and the seed lanceolate, narrow and scarcely winged. And such is the seed of Calycosa of which I have a fragment from Brewer. Now get me a seed specimen of true Parryi if one only half matured. I must settle that point. I do not think Parryi, Smithii or Cal. if not, then my many flowered Parryi of Clear Creek Valley is different from the true Mountain Parryi and is very nearly if not identical with Calycosa note its slender calyx lobes. Please do get me seed one if not for myself at least for your own good sake and that of your Genera! Please, do!

Yours truly

[illegible]

[illegible]

[illegible]

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GEO. ENGELMANN, M. D.
3003 *Locust Street.*

St. Louis, Mo., March 1877

Dear Parry

here is the money order for $16.— for Lemmon, which please forward.

Your Euphorbia Rockyana? is a poor thing — it probably grows in tufts like that E. meritana from Empire, which has such a stout rootstock — but how can one know from such a waif! And then, no fruit, seed! Bad!

Why you say, I have always something to complain and grumble about, may be!

A letter from Palmer and a large package of fine specimens Calif. but nothing new. And I tell you that he found a new agave, larger than Utahensis, 20 miles from St. George — 2 specimens in Cambridge. He will try and get the flower now, and more plants.

Your Sedum and Chaam Iran not now name

Yours truly
G. Engelmann

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I complained to Lemmon about the quality of some of his sp. He said you had just picked the refuse (not with these words!). L. is too wordy and a little highfaluting — is he not?

GEO. ENGELMANN, M. D.
3008 Locust Street.

St. Louis, Mo., May 17 1877

Dear Parry.

The last I heard from you I believe was that you were "still in the middle of sorting" and that was 3 months ago. Have I answered? I believe I have! I am myself in middle, deep — Gray wants Carexes for his Synopsis N. A., which are not written, Oak paper must be revised corrected and completed — printer waiting — Rotter waiting for drawings — Rothrock for Mrs Wheeler's Botany I believe I shall have to claim the benefit of the bankrupt act! The difficulty and misfortune is that I entered all these obligations voluntarily — and now? Well I hope the pressure will become so violent, that I shall burst and spout out all those beautiful things and more too, for when once unchained, Abies and Juniperus and Arcethobium may run off like cholera dejections!

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Meanwhile the season is advancing and oak buds have been swelling from Fort Caroline to Cambridge and to Fountaindale and West to New mexico where Greene sends them. Canby, Vasey, Meehan are also doing their best

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so that I may soon establish a tannery. And I must not forget Palmer who sends Agave & Cact. from south of St George. The mail carrier thinks I am an awful weed-sharp. You are very considerate in not troubling me any with letters or specimens! But what in the world are you at? Why don't I hear a word from you?

May 17 '77

By the way Siler also sends a twig of Douglasia with Arcanthobium. You found the same. It is always a very small thing, scarcely larger than pusillum of the Adirondacks, and ought to be a distinct species; if I could only catch the characters — have no male flowers. You sent it two years ago, but without date: when?

Drop me a line, to say that you are alive and what about. — I begin to be awfully afraid of some friend or other dropping off without due notice, or may be myself, which would be a loss indeed. My oldest and best friend (of 50 years standing), Alex Braun died in Berlin a month ago and I got the news just when I was preparing a large package of Rocky Mt and N Carolina plants for him. Why could I not have sent them 6 months earlier? Why? Confounded procrastination; It will catch me some day before I can finish half the work laid out! Well, this may be too lugubrious, though true.

Don't procrastinate the answer. Yours ever

G Engelmann

Have you seen Wislizenus?

GEO. ENGELMANN, M. D.
3008 *Locust Street.*

MISSOURI
GEORGE ENGELMANN PAPERS

St. Louis, Mo., Sept 10 1877

My dear Doctor

E

months ago I had a letter from you about your wine time east, in Cambridge — but you appeared so uncertain in your movements, that you did not even tell me where to answer you! Then you could not — perhaps you would not get a letter from me!

But here comes Palmer and informs on you — you and he, both at Davenport — and here the infliction comes.

O, how provoked I have been at you in my protracted oak studies — those tan-trousers — scrubs have occupied me for weeks — and you living right among them in Utah and then in Calif. I could have answered so many questions but you did not do it — there in here and there meagre specimens without notes — usually such that you sent by mail — good and fresh — but what is an oak if you have not the history — and you were long enough there to study them a little for me. But here I am not a bit wiser. I guess you did not answer the 1000? which must have adorned

Dr Palmer is going to Europe — I wrote that he was going — I do not know

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(X) I believe a small fruiting fragment sent in the fall of 1875 from San Bernardino belongs here no spring specimen!

my letters.

Here is the puzzle — old Emory's (not the true one) which Palmer got 1870 in numberless specimens in Arizona, and which you found again in Utah & N. and also in fl. in the Calif. Desert. Then there is the true oblongifolia which you got 1851 at Williams Ranch — Schott also about there, and which must make a "middle-sized tree" at Los Angeles & San Diego with glabrous, scarcely reticulated leaves "live oak" Of this I know little and learned nothing from you. (X) And then there is Lemmon's the common Calif. scrub oak, which Palmer got abundantly at San Diego — others at Santa Barbara, you at San Bernardino in April & June 76 — But why do I write? — You won't answer questions — will not put me right — where I am befogged — — O, get out! ——

Sept 10 '77

I will only now ask whether you know these three oaks — whether you distinguish them, and whether you can give me any information which herbarium specimens do not give.

What large oaks have you seen except Chrysolepis — I have not heard of any from you.

Asa Gray & Hooker who run over the country like mad — What good can come of it? Still I ought to have gone with them at least as far as La Veta.

And Palmer says you are going to Mexico Is that so?

I forgot to ask what remuneration shall I give Palmer for the things sent, Agave & Cactus during the season?

Yours, growling, as ever

J. E.

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